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a radiation-producing unit emitting short-coherent radiation;

a beam splitter for forming a first beam component and a second beam component, wherein the first beam component is directed via an object light path to the measured object and the second beam component is directed via a reference light path to a reflecting reference plane;

an image converter which receives the superposed radiation and sends corresponding signals to a device for evaluation, wherein, for the measurement, an optical path length of the object light path is changed relative to an optical path length of the reference light path; and

10. (New) The measuring device according to claim 9, wherein the at least one intermediate image is generated in the object light path.

12. (New) The measuring device according to claim 9, further comprising, in the reference light path, one of a further optical probe and a glass device for compensating for a glass proportion present in the optical probe with regard to the elements for the intermediate image.

wherein the second beam component is directed via a second arm to the reflecting element;

At end

wherein the second beam component in one reference arm is coupled out of the fiber-optic of the reference arm, passes through the further optical probe, is guided via a further fiber-optic element to the further beam splitter, and from there to the image converter for superposing with the radiation coming from the measured object.--.

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